

October 27, 2009

Dear High School STEM Teacher,

Electrical energy is important to all of us. How we generate, distribute, and utilize electrical energy in the United States will face significant challenges and changes in the very near future. We believe high school students need to know about these challenges related to energy and specifically electrical energy. Further, we believe the best way to get the message out is through high school STEM teachers.

On November 20, 2009, a one day workshop entitled **“Future of Conventional and Renewable Electrical Energy: What Should Students Know?”** will be held in Kokomo and *you are invited*. This workshop is being sponsored by Delphi Electronics and Safety, Duke Energy, and the Purdue University College of Technology at Kokomo.

We only have email addresses for Industrial Technology teachers in our service region. When you receive this email, please share this letter with all science and math teachers at your high school. Also, we will copy all high school principals and asked them to encourage all STEM teachers to attend this workshop.

This workshop is being partially supported by a U.S. Department of Labor grant. There is no registration fee, but you must be registered to attend. The registration is limited to the first 25 applicants. Please review the attached program, and if you are interested in attending, please complete the registration form and return either by U.S. mail or FAX to (765) 455-9397 with attention to Cindy Rush. If you have questions, please e-mail Cindy Rush at [<clrush@purdue.edu>](mailto:clrush@purdue.edu).

An educational fuel-cell model car valued at \$150 will be given away at the end of the workshop to a lucky attendee and their school. See picture on the bottom of the Registration Form. You must be present to win.

Sincerely,



Michael T. O'Hair, Ed.D.  
Professor, Electrical and Computer Engineering Technology

Xc: Christy Bozic, Director  
Laura Sheets, Duke Energy  
Paul Ainslie, Delphi Electronics and Safety  
High School Principals



## Future of Conventional and Renewable Electrical Energy: What Should Students Know?

*Sponsored by Delphi Electronics and Safety, Duke Energy, and Purdue University. Hosted by the Electrical and Computer Engineering Technology Department at the College of Technology at Kokomo.*

Purdue University College of Technology at Kokomo, Kelley Center, Room 274  
on

**November 20, 2009**

**Purpose:** Provide an opportunity for high school STEM teachers to learn more about the changes and challenges of producing, distributing, and utilization of electrical energy. It is expected that this information will then be shared with high school students.

### Program Agenda

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|----------|--|
| 8:30 am  | Registration and Continental Breakfast   |
| 9:00     | Introductions and Welcome – Christy Bozic, Purdue CoT- Kokomo, Director  |
| 9:10     | Overview of Electrical Energy in the United States – Dr. Michael O’Hair  |
| 9:30     | Challenges To Electric Utilities Over the Next Decade – Laura Sheets (Duke Energy)   |
| 9:50     | <b>Break</b>   |
| 10:00    | Power Electronics and the Return of the Electric Car – Dr. Paul Ainslie (Delphi)   |
| 10:50    | <b>Break</b>   |
| 11:00    | Impact on the BS for Electrical Engineering Technology Curriculum at Purdue <ul style="list-style-type: none"> <li>- Grant To Infuse Energy Across The BS EET Curriculum – Dr. Michael O’Hair</li> <li>- Electric lawnmower project – Prof. Kevin Taylor</li> <li>- Solar/Wind Energy Training System Demonstration – Daniel Rodriguez (Lab-Volt)</li> </ul> |
| 12:00 pm | <b>Lunch</b>   |
| 12:30    | Green Technology Equipment for High Schools – Daniel Rodriguez (Lab-Volt)  |
| 1:00     | Wrap-Up And Where Do We Go From Here? – All  |
| 1:30     | Drawing For Fuel-Cell Powered Model Car Valued At \$150 – Christy Bozic  |

# Registration Form

## Future of Conventional and Renewable Electrical Energy: What Should Students Know?

Purdue University College of Technology at Kokomo, Kelley Center, Room 274

November 20, 2009, 8:30 am to 1:45 pm

Name \_\_\_\_\_ High School \_\_\_\_\_

High School Address: \_\_\_\_\_

City \_\_\_\_\_ IN Zip Code \_\_\_\_\_

Email \_\_\_\_\_ Phone (home or school) \_\_\_\_\_

Teaching area (check one or more)    Scien ☐    Technol ☐    Engineerin ☐    Math ☐

Do you currently teach any material on energy? \_\_\_\_\_ If yes, please bring items to display and handouts.

Are your students interested in energy and specifically electrical energy?

**Either FAX to (765) 455-9397 attention Cindy Rush or mail to:**

Cindy Rush  
Purdue University  
College of Technology at Kokomo  
Kelley Center, Rm 265  
2300 S. Washington Street  
Kokomo, Indiana 46904

Someone will take this \$150 fuel-cell model car back to their school as a door prize.

